

**Work Order ID 90802****\*90802\***

Page 1

Wednesday, September 26, 2012 1:26:02 PM

Item ID: D4387-041 Accept **\*N900040100\*** Setup Start **\*NS1\***  
Revision ID: Stop **\*NS2\***  
Item Name: Harness Assembly  
Start Date: 9/26/2012 Start Qty: 5.00 **\*5\*** Cust Item ID:  
Required Date: 9/26/2012 Req'd Qty: 5.00 **\*5\*** Customer:  
Reference: USED/REINSPECT/CERTIFY

Approvals: Process Plan: ME Date: 12-09-26 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D4387	B U/R								
170	<u>MD OK TO SHIP</u> <u>REV B</u>	0.00							
<b>*170*</b>									
QC	Memo	0.00							
Quality Control	PULL FROM QUARANTINE D4387-041 X 5 B 72273								
	RE-INSPECT AND RE-CERTIFY (SEE PAT SMITH)								
	RESTOCK UNDER NEW BATCH NUMBER								
	SHOULDER HARNESSSES ARE TO BE PULLED ON W/O D412-702-023 X 1 B90801								
180		0.00							
<b>*180*</b>									
Packaging	Memo	0.00							
Packaging									

16  
26/9/12

263

⑤

12/9/27sf

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Material <input type="checkbox"/>									
Setup <input type="checkbox"/>									
Other <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

**FAULT CATEGORY**

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped. <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge	<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
--	---	---	--	---

**Work Order ID 90802****\*90802\***

Page 2

Wednesday, September 26, 2012 1:26:02 PM

Item ID: D4387-041

Accept

**\*N900040100\***Setup Start **\*NS1\***

Revision ID:

Item Name: Harness Assembly

Stop **\*NS2\***

Start Date: 9/26/2012 Start Qty: 5.00

**\*5\***

Cust Item ID:

Required Date: 9/26/2012 Req'd Qty: 5.00

**\*5\***

Customer:

Reference: USED/REINSPECT/CERTIFY

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start **\*NR1\***

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop **\*NR2\***Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

190

QC21- Final Inspection - Work Order Release

0.00

**\*190\***

QC

Memo

0.00

Quality Control

ML5 12-09-27

MP 12-09-29

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____				<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		<b>AGAINST DEPARTMENT/PROCESS</b>  <div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/>            Machining <input type="checkbox"/>            Thermoforming <input type="checkbox"/>            Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/>            Small Fab <input type="checkbox"/>            Finishing <input type="checkbox"/>            Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/>            Prod. Eng. Coord. <input type="checkbox"/>            Rec/Store/Packaging <input type="checkbox"/>            Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/>            Quality <input type="checkbox"/>            Other <input type="checkbox"/> </div> </div>						
<b>Root Cause</b>	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector			
Doc/Data <input type="checkbox"/>												
Equip/Tooling <input type="checkbox"/>												
Operator <input type="checkbox"/>												
Material <input type="checkbox"/>												
Setup <input type="checkbox"/>												
Other <input type="checkbox"/>												
Process <input type="checkbox"/>												
Supplier <input type="checkbox"/>												
Training <input type="checkbox"/>												
Unapproved <input type="checkbox"/>												
<b>FAULT CATEGORY</b>												
<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube			<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio			<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions			<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other	

# Picklist Print

Wednesday, September 26, 2012 1:26:01 P

Page 1

Work Order ID: 90802  
Parent Item: D4387-041  
Parent Item Name: Harness Assembly

Start Date: 9/26/2012 Required Date: 9/26/2012  
Start Qty: 5.00 Required Qty: 5.00

Comments: IPP rev A 11.05.25 new issue EC verified by: DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4387-041 Harness Assembly		Manufactured	No				Each	8.0000		5			
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ST263				8					
				85229				2					
				88176				6					

B72273

MF  
12-09-2

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____				<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		<b>AGAINST DEPARTMENT/PROCESS</b>  <div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/>            Machining <input type="checkbox"/>            Thermoforming <input type="checkbox"/>            Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/>            Small Fab <input type="checkbox"/>            Finishing <input type="checkbox"/>            Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/>            Prod. Eng. Coord. <input type="checkbox"/>            Rec/Store/Packaging <input type="checkbox"/>            Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/>            Quality <input type="checkbox"/>            Other <input type="checkbox"/> </div> </div>						
<b>Root Cause</b>	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector			
Doc/Data <input type="checkbox"/>												
Equip/Tooling <input type="checkbox"/>												
Operator <input type="checkbox"/>												
Material <input type="checkbox"/>												
Setup <input type="checkbox"/>												
Other <input type="checkbox"/>												
Process <input type="checkbox"/>												
Supplier <input type="checkbox"/>												
Training <input type="checkbox"/>												
Unapproved <input type="checkbox"/>												
<b>FAULT CATEGORY</b>												
<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube			<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio			<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions			<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other	

# Eagle Copters Maintenance Ltd

823 McTavish Rd, NE  
Calgary, Alberta T2E 7G9  
Canada

## PURCHASE ORDER

May 01, 2012

Telephone: (403) 250-7370

Fax: (403) 250-7110

PO-12-001947

Issued: 5/1/2012

### Vendor

Code: VU-DAR004  
Name: Dart Aerospace (USD)  
Address: 1270 Aberdeen Street  
Hawkesbury, Ontario K6A 1K7  
  
Phone: 613-632-5200  
Fax: 613-632-5246

### Customer

Code: CC-ECML  
Name: Eagle Copters Maintenance Ltd  
Address: 823 McTavish Rd, NE  
Calgary, Alberta T2E 7G9  
Canada

### Ship to

Name: Eagle Copters Maintenance Ltd  
Address: 823 McTavish Rd, NE  
Calgary, Alberta T2E 7G9  
Canada  
Phone: (403) 250-7370

Repair: NO

To Support Eagle Copters' controlled Shelf life program, any material ordered that is subject to a shelf life requirement must be identified on this PO accompanied by supporting documents showing the expiry dates. Material that is not properly identified will be returned to the Vendor or placed in quarantine until the documents are provided.

Item	Qty	Part number/Fuel type	Part/Item Description	Condition	Unit Price	Base Price	UOM	Exch Rate	Extended Amount	Base Extended Amount	Req'd Dt	Prms'd Dt
1	1	D412-702-023	Shoulder Harness Kit 4 Point Attachment 5 Man Fwd	Rework	1,700.00	1,734.00	Each	0.980392	1,700.00 USD	1,734.00 CAD	05/01/2012	05/08/2012

Work Order Number: 45864.22.19 #1

Carrier: FED EX

Shipping Instructions: Please ship Fedex P1 acct# 1092 2342 5

Buyer: Mark Miele

Approved By: Mark Miele

P.O. Total: 1,734.00 CAD 1,700.00 USD

\* End of Purchase Order \*

1. Approving National Aviation Authority/Country: FAA/United States		2. <b>AUTHORIZED RELEASE CERTIFICATE</b> FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: <i>43662-1NA</i>	
4. Organization Name and Address: Amsafe Aviation 1043 NORTH 47TH AVE PHOENIX, AZ. 85043				Cert. No. I6AR839J		5. Work Order/Contract/Invoice Number: 43662-1 _0_ PAGES ATTACHED	
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	REST SYS ASSY	4192-1-011-2396	N/A	5	RA1111	OVERHAULED	
13. Remarks: DRAWING: 4192 REV: D TSO:CI14 REPLACED : web-thread-20 labels-5 caps-5 covers-10 springs-5 covers Overhauled in accordance with process specification number 33169.Rev.04/26/10 "I6AR839J certifies that the work specified in Blocks 12/13 was performed in accordance with EASA Implementation rule part 145, and with respect to that work, the aircraft component is considered Ready for release to service under EASA part 145 approval number EASA.145.4145".							
INSPECTED BY: REPAIRMAN 2697495				OVERHAULED BY: Guadalupe Almodovar -Martha Lujan-		DATE: 11/10/11	
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature:		16. Approval/Authorization No.:		20. Authorized Signature:		21. Approval/Certificate No.:	
				<i>Nellie Alvarado</i>		I6AR839J	
17. Name (Typed or Printed):		18. Date (m/d/y):		22. Name (Typed or Printed):		23. Date (m/d/y):	
				NELLIE ALVARADO		NOV/14/2011	
<b>User/Installer Responsibilities</b>							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							



# HELICOPTER TRANSPORT SERVICES (CANADA) INC.

Carp, Ontario K0A 1L0

Nomenclature

SIEMENS SEAT BELT HARNESS

Part No.

0412-702-123

Serial No.

1370715

Removed from A/C

CS-300TK

Date

JUN 28 / 2011

Total A/C Hours

10869.6

Total A/C Cycles

4

Item TSN/TSO

---

Item CSN/CSO

---



REPAIRABLE



SCRAP

Removed by

Joe Sutton

STATE REASON FOR REMOVAL ON OTHER SIDE

UNSERVICEABLE

DCS D4387

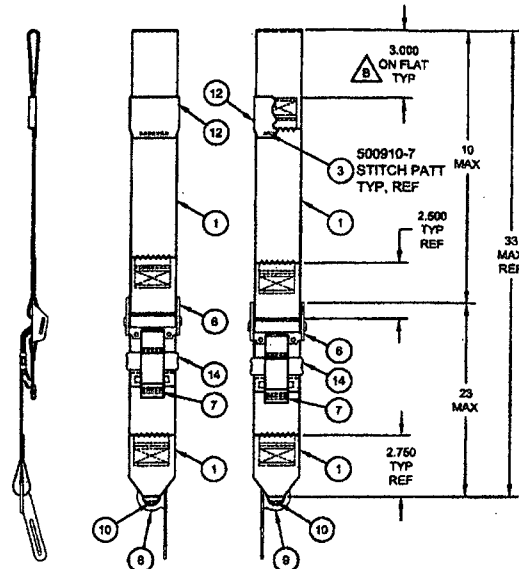
WORK ORDER (TOP ASSY)

D412-702-023

WORK ORDER (SUB ASSY)

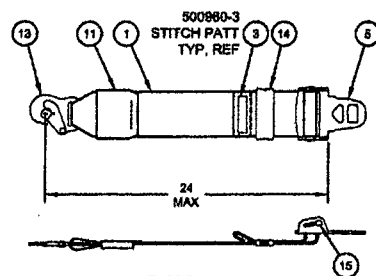
QTY 5 D4387-041

## SPECIFICATION CONTROL DRAWING

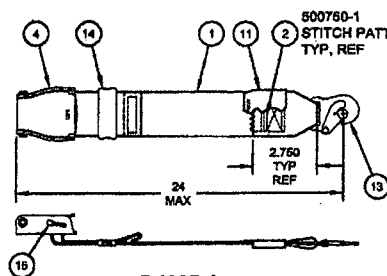


D4387-7

D4387-5



D4387-3



D4387-1

D4387-041 HARNESS ASSEMBLY

ITEM	QTY -041	QTY -1	QTY -3	QTY -5	QTY -7	DART P/N	DESCRIPTION	AMSAFE P/N OR MATERIAL P/N
	X					D4387-041	HARNESS ASSEMBLY	4192-1-011-2398
1		X				D4387-1	BUCKLE HALF	4192-2010112398
1			X			D4387-3	CONNECTOR HALF	4192-2030112398
1				X		D4387-5	SHOULDER STRAP	4192-2050112398
1					X	D4387-7	SHOULDER STRAP	4192-2080112398
1	A/R	A/R	A/R	A/R	A/R		WEBBING, POLYESTER	T1200-5
2	A/R	A/R	A/R	A/R	A/R		THREAD	207
3	A/R	A/R	A/R	A/R	A/R		THREAD	69
4	1						BUCKLE ASSY	502750-401
5		1					CONNECTOR ASSY	504459-417-72
6			1	1			ADJUSTER ASSY	503050-409
7			1	1			PULL TAB	500978-425
8				1	1		ADAPTER, HARNESS	505122-2-72
9				1	1		ADAPTER, HARNESS	505122-1-72
10				1	1		INSERT	AFG0568283
11	1	1					LABEL	447684
12				1	1		LABEL	447684
13	1	1	1	1			HOOK ASSY	502737-441-72
14	1	1	1	1			WEB SLIDE	503964-1
15	2	2					PLUG	502813

## NOTES:

- 1) PURCHASE: D4387-041/-1/-3/-5/-7 FROM AMSAFE INC., Phoenix, AZ.
- 2) FINISH: N/A
- 3) TOLERANCES: .XXX ±0.250
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: USE PLASTIC ENGRAVED TAGS AND LABEL PER FAR 21.607 TO CONTAIN THE FOLLOWING AT MINIMUM:  
MANUFACTURER P/N: 4192-1-011-2398  
CUSTOMER P/N: D4387-041  
DATE OF MFG  
CONFORMS TO FAA TSO-C114
- 7) WEIGHT: 1.75 lb
- 8) INDICATED DIMS ARE FULLY EXTENDED LENGTHS

UNDER REVIEW  
12/06/10  
FOR REV. CRELEASED  
2011-06-16

B	3.000 TYP WAS 2.000 TYP (ZN D6-1) (REF. NCR11-844)	MB	11.06.07
A	NEW ISSUE (REF. CAR10-011)	MB	11.05.02
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	11.06.07		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. D4387		REV. B SHEET 1 OF 2	
TITLE HARNESS ASSEMBLY		SCALE NTS	
COPYRIGHT © 2011 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR REPRODUCED IN ANY MANNER WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

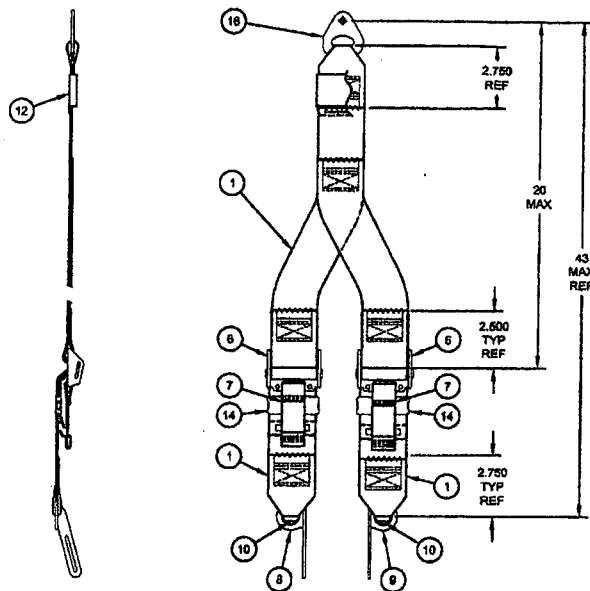
100

100

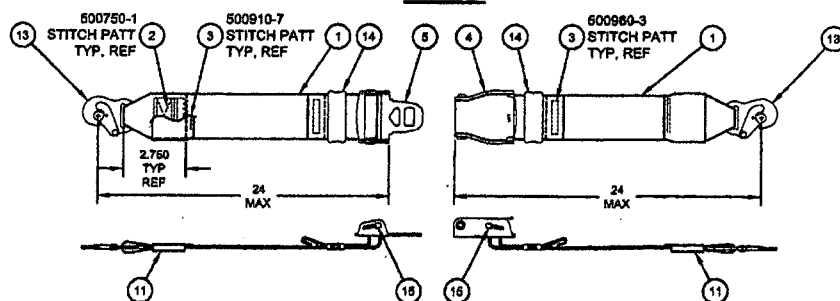
100

100

# SPECIFICATION CONTROL DRAWING



**D4387-9**



**D4387-13**

**D4387-11**

**D4387-043 HARNESS ASSEMBLY**

ITEM	QTY -043	QTY -9	QTY -11	QTY -13	DART P/N	DESCRIPTION	AMSAFE P/N OR MATERIAL P/N
	X				D4387-043	HARNESS ASSEMBLY	4173-2-021-2386
1		X			D4387-9	SHOULDER STRAP	4173-2110212386
1			X		D4387-11	BUCKLE HALF	4173-2070212386
1				X	D4387-13	CONNECTOR HALF	4173-2090212386
1		A/R	A/R	A/R		WEBBING, POLYESTER	T1200-5
2		A/R	A/R	A/R		THREAD	207
3		A/R	A/R	A/R		THREAD	89
4			1			BUCKLE ASSY	502750-401
6				1		CONNECTOR ASSY	504459-417-72
6		2				ADJUSTER ASSY	503050-409
7		2				PULL TAB	500976-425
8		1				ADAPTER, HARNESS	505122-2-72
9		1				ADAPTER, HARNESS	505122-1-72
10		2				INSERT	AFG0568283
11			1	1		LABEL	447864
12		1				LABEL	447864
13		2	1	1		HOOK ASSY	502737-441-72
14			1	1		WEB SLIDE	503984-1
15			2	2		PLUG	502913
16		1				END FITTING	501743-21-72

## NOTES:

- 1) PURCHASE: D4387-043/-9/-11/-13 FROM AMSAFE INC., Phoenix, AZ
- 2) FINISH: N/A
- 3) TOLERANCES: .XXX ±0.250
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: USE PLATIC ENGRAVED TAGS AND LABEL PER FAR 21.607 TO CONTAIN THE FOLLOWING AT MINIMUM:  
MANUFACTURER P/N: 4173-2-021-2386  
CUSTOMER P/N: D4387-043  
DATE OF MFG  
CONFORMS TO FAA TSO-C114
- 7) WEIGHT: 1.85 lb
- 8) INDICATED DIMS ARE FULLY EXTENDED LENGTHS

UNDER REVIEW

12/06/16 9P

RELEASED  
2011-06-16

DESIGN		<b>DART AEROSPACE LTD</b>
DRAWN		HAWKESBURY, ONTARIO, CANADA
CHECKED		DRAWING NO. REV. B
MFG. APPR.		D4387 SHEET 2 OF 2
APPROVED		TITLE SCALE
DE APPR.		HARNESS ASSEMBLY NTS
DATE	11.06.07	

COPYRIGHT © 2011 BY DART AEROSPACE LTD  
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE SUPPLIER CONDITION THAT IT IS  
NOT TO BE USED FOR ANY PURPOSES OR COPIES OR REPRODUCED IN ANY OTHER MANNER WITHOUT  
WRITTEN PERMISSION FROM DART AEROSPACE LTD.



QTY -021	QTY -023	QTY -025	QTY -027	QTY -029	QTY -035	Part Number	Description
X						D412-702-021	Dart 13-Man Shoulder Harness Kit, 4-point
	X					D412-702-023	Dart 5-Man Forward Facing Shoulder Harness Kit, 4-point
		X				D412-702-025	Dart 4-Man Aft Facing Shoulder Harness Kit, 4-point
			X			D412-702-027	Dart 4-Man Side Facing Shoulder Harness Kit, 4-point
				X		D412-702-029	Dart 1-Man Forward Facing Shoulder Harness Kit, 4-point
					X	D214-702-035	Dart 5-Man Aft Facing Shoulder Harness Kit, 4-point, for Bell 214B/B-1
1	1		1	1		D412-702-069	GROMMET KIT
2	2					D3195-041	BRACKET
2	2					D3195-043	BRACKET
1	1			1		D3196-1	BAR
1			1			D3196-3	BAR
1			1			D3196-4	BAR
2	2					D3197-041	BAR
4		4				D3198-1	FITTING
2	2					D3268-1	PLACARD
9	5		4	1		D3446-041	HARNESS ASSEMBLY, 4 POINT
4		4				D3446-043	HARNESS ASSEMBLY, 4 POINT
					5	D3446-045	HARNESS ASSEMBLY, 4 POINT
13	5	4	4	1	5	D3551-11	HOOK AND LOOP TIE
2	2					D3546-1	CLIP
4		4				AN4-5A	BOLT
4	4					AN4-13A	BOLT
8		8				AN4-20A	BOLT
20		20				AN960JD416	WASHER (OR NAS1149D0463J)
12		12				MS21042L4	NUT (OR MS21042-4)
8	2		6	2		MS24694-S152	SCREW
8	2		6	2		MS24694-S154	SCREW

QTY -069	Part Number	Description
X	D412-702-069	GROMMET KIT
24	D3619-2	GROMMET
1	D3619-2T1	HOLE PUNCH
1	D3619-2T2	STRIKER BLOCK
1	D3619-2T3	PUNCH
1	D3619-2T4	DIE

1. The first part of the document is a list of names and addresses of the members of the committee.

2. The second part of the document is a list of names and addresses of the members of the committee.

3. The third part of the document is a list of names and addresses of the members of the committee.

## **1.0 INTRODUCTION**

### **1.1 4 Point Shoulder Harness Kits for Passenger Seats**

The Dart **D412-702-011** 13-Man Shoulder Harness Kit provides 4-point shoulder harnesses for all 13 passenger seating positions in the aircraft. The kit contains shoulder belts that loop over the existing lap belts, as well as hardpoints for securing the belts.

The Dart **D412-702-013** 5-Man Forward Facing Shoulder Harness Kit provides 4-point shoulder harnesses for the 5 forward facing seating positions in the aircraft cabin. The kit contains shoulder belts that loop over the existing lap belts, as well as hardpoints for securing the belts.

The Dart **D412-702-015** 4-Man Aft Facing Shoulder Harness Kit provides 4-point shoulder harnesses for the 4 aft facing seating positions in the aircraft cabin. The kit contains shoulder belts that loop over the existing lap belts, as well as hardpoints for securing the belts.

The Dart **D412-702-017** 4-Man Side Facing Shoulder Harness Kit provides 4-point shoulder harnesses for the 4 side facing seating positions in the aircraft cabin. The kit contains shoulder belts that loop over the existing lap belts, as well as hardpoints for securing the belts.

The Dart **D412-702-019** 1-Man Forward Facing Shoulder Harness Kit provides a 4-point shoulder harness for the center forward facing seating position in the aircraft cabin. The kit contains shoulder belts that loop over the existing lap belts, as well as hardpoints for securing the belts.

The Dart **D412-702-021** 13-Man Shoulder Harness Kit provides 4-point harnesses for all 13 passenger seating positions in the aircraft. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts.

The Dart **D412-702-023** 5-Man Forward Facing Shoulder Harness Kit provides 4-point harnesses for the 5 forward facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts.

The Dart **D412-702-025** 4-Man Aft Facing Shoulder Harness Kit provides 4-point harnesses for the 4 aft facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts.

The Dart **D412-702-027** 4-Man Side Facing Shoulder Harness Kit provides 4-point harnesses for the 4 side facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts.

The Dart **D412-702-029** 1-Man Forward Facing Shoulder Harness Kit provides a 4-point shoulder harness for the center forward facing seating position in the aircraft cabin. The kit contains hardpoints for securing the harness. The harness for this kit meets the requirements of TSO-C114 and replaces the existing lap belts.

The Dart **D214-702-035** 5-Man Aft Facing Shoulder Harness Kit provides 4-point harnesses for the 5 aft facing seating positions of Bell Helicopter's 214-070-700-009 Passenger Seat Kit for the Bell 214B/214B-1 aircraft. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts.

The Dart **D412-702-069** Grommet Kit provides grommets and grommet installation tools for use on the OEM thermal blankets when installing the 4-point shoulder harness kits.



12/20/77

NEW YORK, N.Y. (AP) — The  
U.S. District Court in New York

has ruled that the federal  
government's seizure of the  
U.S. District Court in New York

is illegal. The court  
has ruled that the federal  
government's seizure of the  
U.S. District Court in New York

is illegal. The court  
has ruled that the federal  
government's seizure of the  
U.S. District Court in New York

is illegal. The court  
has ruled that the federal  
government's seizure of the  
U.S. District Court in New York

is illegal. The court  
has ruled that the federal  
government's seizure of the  
U.S. District Court in New York

is illegal. The court  
has ruled that the federal  
government's seizure of the  
U.S. District Court in New York

is illegal. The court  
has ruled that the federal  
government's seizure of the  
U.S. District Court in New York

is illegal. The court  
has ruled that the federal  
government's seizure of the  
U.S. District Court in New York

is illegal. The court  
has ruled that the federal  
government's seizure of the  
U.S. District Court in New York

is illegal. The court  
has ruled that the federal  
government's seizure of the  
U.S. District Court in New York

is illegal. The court  
has ruled that the federal  
government's seizure of the  
U.S. District Court in New York

is illegal. The court  
has ruled that the federal  
government's seizure of the  
U.S. District Court in New York

is illegal. The court  
has ruled that the federal  
government's seizure of the  
U.S. District Court in New York

BATCH # B70053

# HELICOPTER TRANSPORT SERVICES (CANADA) INC.

Carp, Ontario K0A 1L0

D.O.T. APPROVAL NO: 28-89

Nomenclature: BELT ASSY  
Manufacturer: DART Type/Model: 212  
Part No: D4387-041 Serial No: N/A  
Total Time: 0.0 Work Order: CGHTK  
T.S.O. N/A C.S.N. N/A C.S.O. N/A  
Overhaul ☐ Repair ☐ Modification ☐ Removal ☒  
Previous Certification: CGHTK

The maintenance described has been performed in accordance with the applicable standards of airworthiness.

New ☐ Incoming inspection carried out

DATE

NAME OF AUTHORIZED INSPECTOR

LIC. No./STAMP

Details of outstanding work and other information on reverse

MAINTENANCE RELEASE

BATCH # B70053

# HELICOPTER TRANSPORT SERVICES (CANADA) INC.

Carp, Ontario K0A 1L0

D.O.T. APPROVAL NO: 28-89

Nomenclature: BELT ASSY  
Manufacturer: DART Type/Model: 212  
Part No: D4387-041 Serial No: N/A  
Total Time: 0.0 Work Order: CGHTK  
T.S.O. N/A C.S.N. N/A C.S.O. N/A  
Overhaul ☐ Repair ☐ Modification ☐ Removal ☒  
Previous Certification: CGHTK

The maintenance described has been performed in accordance with the applicable standards of airworthiness.

New ☐ Incoming inspection carried out

DATE

NAME OF AUTHORIZED INSPECTOR

LIC. No./STAMP

Details of outstanding work and other information on reverse

MAINTENANCE RELEASE

BATCH # B70053

# HELICOPTER TRANSPORT SERVICES (CANADA) INC.

Carp, Ontario K0A 1L0

D.O.T. APPROVAL NO: 28-89

Nomenclature: BELT ASSY  
Manufacturer: DART Type/Model: 212  
Part No: D4387-041 Serial No: N/A  
Total Time: 0.0 Work Order: CGHTK  
T.S.O. N/A C.S.N. N/A C.S.O. N/A  
Overhaul ☐ Repair ☐ Modification ☐ Removal ☒  
Previous Certification: CGHTK

The maintenance described has been performed in accordance with the applicable standards of airworthiness.

New ☐ Incoming inspection carried out

DATE

NAME OF AUTHORIZED INSPECTOR

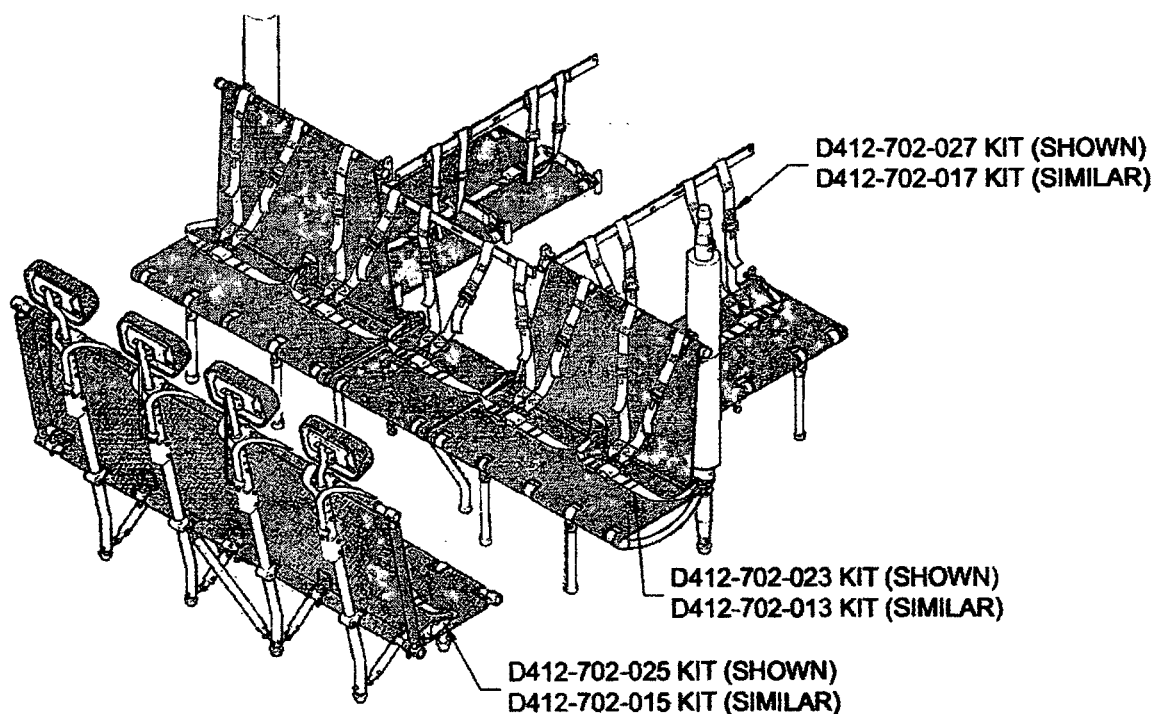
LIC. No./STAMP

Details of outstanding work and other information on reverse

MAINTENANCE RELEASE

The D412-702-011/-013/-015/-017/-019 kits can be converted to D412-702-021/-023/-025/-027/-029 kits (respectively) by replacing the D3215-041/-043 Harness Assemblies with D3446-041/-043 Harness Assemblies (respectively) per the appropriate installation procedure of these instructions. Note that 1x D3446-041 will replace 2x D3215-041 and 1x D3446-043 will replace 1x D3215-043.

**Figure 1.1** shows the D412-702-011/-021 13-man shoulder harness kits and **Figure 1.2** shows the D412-702-019/-029 1-man shoulder harness kit.



**FIGURE 1.1. DART D412-702-011/-021 13-MAN 4-POINT SHOULDER HARNESS KITS**  
(D412-702-021 KIT SHOWN, D412-702-011 KIT SIMILAR)

100-100000

100-100000

100-100000

100-100000  
100-100000

100-100000  
100-100000  
100-100000  
100-100000

100-100000

BATCH # B70053

**HELICOPTER TRANSPORT SERVICES (CANADA) INC.**

Carp, Ontario K0A 1L0

D.O.T. APPROVAL NO: 28-89

Nomenclature: BELT ASSY  
Manufacturer: DART Type/Model: 212  
Part No: D4387-041 Serial No: N/A  
Total Time: 0.0 Work Order: C-GHTR  
T.S.O. N/A C.S.N. N/A C.S.O. N/A

Overhaul ☐ Repair ☐ Modification ☐ Removal ☒

Previous Certification: C-GHTR

The maintenance described has been performed in accordance with the applicable standards of airworthiness.

New ☐ Incoming inspection carried out

DATE

NAME OF AUTHORIZED INSPECTOR

LIC. No./STAMP

Details of outstanding work and other information on reverse

MAINTENANCE RELEASE

BATCH # B70053

**HELICOPTER TRANSPORT SERVICES (CANADA) INC.**

Carp, Ontario K0A 1L0

D.O.T. APPROVAL NO: 28-89

Nomenclature: BELT ASSY  
Manufacturer: DART Type/Model: 212  
Part No: D4387-041 Serial No: N/A  
Total Time: 0.0 Work Order: C-GHTR  
T.S.O. N/A C.S.N. N/A C.S.O. N/A

Overhaul ☐ Repair ☐ Modification ☐ Removal ☒

Previous Certification: C-GHTR

The maintenance described has been performed in accordance with the applicable standards of airworthiness.

New ☐ Incoming inspection carried out

DATE

NAME OF AUTHORIZED INSPECTOR

LIC. No./STAMP

Details of outstanding work and other information on reverse

MAINTENANCE RELEASE



**HELICOPTER TRANSPORT SERVICES (CANADA) INC.**

Carp, Ontario K0A 1L0

D.O.T. APPROVAL NO: 28-89

BATCH # B70053

Nomenclature: BELT ASSY  
Manufacturer: DART Type/Model: 212  
Part No: D4387-041 Serial No: N/A  
Total Time: 00 Work Order: C-GHTK  
T.S.O. N/A C.S.N. N/A C.S.O. N/A  
Overhaul ☐ Repair ☐ Modification ☐ Removal ☒  
Previous Certification: C-GHTK

The maintenance described has been performed in accordance with the applicable standards of airworthiness.

New ☐ Incoming inspection carried out

DATE

NAME OF AUTHORIZED INSPECTOR

LIC. No./STAMP

Details of outstanding work and other information on reverse

MAINTENANCE RELEASE

**HELICOPTER TRANSPORT SERVICES (CANADA) INC.**

Carp, Ontario K0A 1L0

D.O.T. APPROVAL NO: 28-89

BATCH # B70053

Nomenclature: BELT ASSY  
Manufacturer: DART Type/Model: 212  
Part No: D4387-041 Serial No: N/A  
Total Time: 00 Work Order: C-GHTK  
T.S.O. N/A C.S.N. N/A C.S.O. N/A  
Overhaul ☐ Repair ☐ Modification ☐ Removal ☒  
Previous Certification: C-GHTK

The maintenance described has been performed in accordance with the applicable standards of airworthiness.

New ☐ Incoming inspection carried out

DATE

NAME OF AUTHORIZED INSPECTOR

LIC. No./STAMP

Details of outstanding work and other information on reverse

MAINTENANCE RELEASE

**HELICOPTER TRANSPORT SERVICES (CANADA) INC.**

Carp, Ontario K0A 1L0

D.O.T. APPROVAL NO: 28-89

BATCH # B70053

Nomenclature: BELT ASSY  
Manufacturer: DART Type/Model: 212  
Part No: D4387-041 Serial No: N/A  
Total Time: 00 Work Order: C-GHTK  
T.S.O. N/A C.S.N. N/A C.S.O. N/A  
Overhaul ☐ Repair ☐ Modification ☐ Removal ☒  
Previous Certification: C-GHTK

The maintenance described has been performed in accordance with the applicable standards of airworthiness.

New ☐ Incoming inspection carried out

DATE

NAME OF AUTHORIZED INSPECTOR

LIC. No./STAMP

Details of outstanding work and other information on reverse

MAINTENANCE RELEASE

**HELICOPTER TRANSPORT SERVICES (CANADA) INC.**

Carp, Ontario K0A 1L0

D.O.T. APPROVAL NO: 28-89

BATCH # B70053

Nomenclature: BELT ASSY  
Manufacturer: DART Type/Model: 212  
Part No: D4387-041 Serial No: N/A  
Total Time: 0.0 Work Order: CGHTK  
T.S.O. N/A C.S.N. N/A C.S.O. N/A  
Overhaul ☐ Repair ☐ Modification ☐ Removal ☒  
Previous Certification: CGHTK

The maintenance described has been performed in accordance with the applicable standards of airworthiness.

New ☐ Incoming inspection carried out

DATE

NAME OF AUTHORIZED INSPECTOR

LIC. No./STAMP

Details of outstanding work and other information on reverse

MAINTENANCE RELEASE

**HELICOPTER TRANSPORT SERVICES (CANADA) INC.**

Carp, Ontario K0A 1L0

D.O.T. APPROVAL NO: 28-89

BATCH # B70053

Nomenclature: BELT ASSY  
Manufacturer: DART Type/Model: 212  
Part No: D4387-041 Serial No: N/A  
Total Time: 0.0 Work Order: CGHTK  
T.S.O. N/A C.S.N. N/A C.S.O. N/A  
Overhaul ☐ Repair ☐ Modification ☐ Removal ☒  
Previous Certification: CGHTK

The maintenance described has been performed in accordance with the applicable standards of airworthiness.

New ☐ Incoming inspection carried out

DATE

NAME OF AUTHORIZED INSPECTOR

LIC. No./STAMP

Details of outstanding work and other information on reverse

MAINTENANCE RELEASE

**HELICOPTER TRANSPORT SERVICES (CANADA) INC.**

Carp, Ontario K0A 1L0

D.O.T. APPROVAL NO: 28-89

BATCH # B70053

Nomenclature: BELT ASSY  
Manufacturer: DART Type/Model: 212  
Part No: D4387-041 Serial No: N/A  
Total Time: 0.0 Work Order: CGHTK  
T.S.O. N/A C.S.N. N/A C.S.O. N/A  
Overhaul ☐ Repair ☐ Modification ☐ Removal ☒  
Previous Certification: CGHTK

The maintenance described has been performed in accordance with the applicable standards of airworthiness.

New ☐ Incoming inspection carried out

DATE

NAME OF AUTHORIZED INSPECTOR

LIC. No./STAMP

Details of outstanding work and other information on reverse

MAINTENANCE RELEASE



**AMSAFE****AMSAFE AVIATION**

1043 NORTH 47th AVENUE

PHOENIX, AZ 85043

PH (602)850-2850 FAX (602)850-2812

**SHIPPER/CERTIFICATION**

<b>CUSTOMER NO.</b>
10012691

<b>SALES ORDER NO.</b>
43662

<b>BOL NO.</b>
000250169

<b>DATE PRINTED</b>
11/17/11

<b>PAGE NO.</b>
1

DART AEROSPACE  
1270 ABERDEEN STREET  
HAWKESBURY, ON K6A 1K7  
CanadaDART AEROSPACE LTD.  
1270 ABERDEEN ST  
HAWKESBURY,, ON K6A 1K7  
Canada

<b>CUSTOMER ORDER NO.</b>
PO15387

<b>TERMS</b>
NET30

<b>FREIGHT</b>
COLLECT

<b>SHIP VIA</b>
FedEx P1 10:30 AM

<b>F.O.B.</b>
ORIGIN

Ship to ID: 10006125

Sales Order Remarks: 1517-9324-0

Remarks:

SHIP SOONER IF POSSIBLE

SHIPMENT REFERENCE 000250169

LINE	ITEM NUMBER / DESCRIPTION	DRAWING AND CERTIFICATIONS	DUE DATE	QTY ORDERED	QTY SHIPPED	QTY BACK ORDERED
1	4192-1-011-2396 REST SYS ASSY	DRAWING: 4192 REV: D CERT: TSO-C114 Lot/Serial Numbers Shipped Quantity 43662-1 CRO # 43662	2011-11-21 5.0	5 Expire 5 Ref.	5 5	0

Julu/21

I certify that the article(s) listed above conform to all applicable design data, and (as applicable):  
FAA PMA, FMVSS 209, FMVSS 302, 14 CFR 25.853, DFARS 252-225-7009

FAA TSO C22f, C22g, C114 or TSO Plus

The conditions and tests required for TSO approval of the article(s) are minimum performance standards. It is the responsibility of those installing the article(s) either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the standards applicable to the TSO article including (when applicable) the integrated non-TSO function. The non-TSO function is described as the seat belt airbag system including the inflator cable assembly and electrical components that have not been evaluated for functionality or installation requirements. TSO articles including the integrated non-TSO function must have separate approval for installation in an aircraft. The article(s) may be installed only if performed under 14 CFR part 43 or the applicable airworthiness requirements. Product shipped meets all material, processing and test requirements. Certifications/Test reports as applicable are retained on file at AmSafe Aviation.

AmSafe Authorized Signature: X Jesse OchoaPrinted Name: Jesse Ochoa

NOV 17 2011

Dated: \_\_\_/\_\_\_/\_\_\_

COUNTRY OF ORIGIN USA

# **DART SERVICE INSTRUCTION**

TO AMEND IIN-D412-702-1 REV. A,  
AND ICA-D412-702 REV. 4 OR EARLIER APPROVED REVISIONS  
REF. TCCA STC: SH04-7  
REF. FAA STC: SR01997NY  
REF. EASA STC: EASA.IM.R.S.00710

## **PURPOSE**

The purpose of this DSI is to outline the replacement of existing D3446-041/-043 Shoulder Harnesses with the new and improved D4387-041/-043 Shoulder Harnesses.

## **CHANGE**

For the following Kits, the D4387-041 and D4387-043 Shoulder Harnesses respectively replace the D3446-041 and D3446-043 Shoulder Harnesses as follows:

Old Harness P/N	Used On	New Harness P/N	Effectivity
D3446-041 →	D412-702-021	D4387-041	CHG 003 and subsequent
	D412-702-023		CHG 002 and subsequent
	D412-702-027		
	D412-702-029		
D3446-043	D412-702-021	D4387-043	CHG 003 and subsequent
	D412-702-025		CHG 002 and subsequent






Customers who want to upgrade their shoulder harnesses may replace their existing D3446-041/-043 with D4387-041/-043 per this service instruction.

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY:   
D. SHEPHERD (DE # 02)

DATE: 11.05.09  
CERT. NO.: SH04-7  
ISSUE NO.: 3

A	NEW ISSUE	MB	11.05.09
REV.	DESCRIPTION	BY	DATE
DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9559	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		HARNESS CHANGE	NTS
DATE	11.05.09	COPYRIGHT © 2011 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

NOT RECORDED

RECEIVED

1967

1967

1967

1967

1967

1967

1967

1967

1967

AmSafe  
Aviation  
Repair Station I6AR839J

CUSTOMER  
REWORK ORDER  
TEAR DOWN REPORT

CRO No: 43662  
Date: 07/26/11

Cust: DART AEROSPACE  
Part: 4192-1-011-2396  
Quantity: 5.0  
Cust Part: D4387-041

Cust PO: P015387  
Pt Name: REST SYS ASSY  
Drawing: 4192  
Mfg Dt: A0511

SO#: 43662-1  
Rev: D

REASON FOR RETURN (Customer's Stmt)

REWEB

INVESTIGATION BY: DELIA

Date: 07/26/11

Confirmed: ✓ Other: Dindy update

Top Assy: ✓

Disposition: REPAIR

Freight: CUST

Service Bulletins:

Responsibility: CUST

WORK INSTRUCTIONS BY: M.

Date: 7/26/11

DM Process Spec #33196

EA Disassemble Hdwr/Non-Serv(red tag) Scrap

DM Inspect for Serviceability

DM Record Hardware Lot# of MFG date code

DM Reweb Required

DM Relabel to include R in date code

EA Clean Component/Assy. per print

EA Replace hardware/Record p/n/qty/lot (BOM)

ML Manufacture First Article per print / S/B

N/A Test Rec'd (A-108 If Req'd) Pass ✓ Fail ✓

ML Rebuild remaining units per print / S/B

✓ Final Inspection

N/A FAA Return to Service Tag# 43662-1/N/A

✓ Print Statement of Conformance

FIRST ARTICLE  
DIMENSION

ACTUAL

33.00 Ref.	33.00, 33.00
24.00 ± .00 x 2	24.37, 24.37
10.00 ± .00 x 2	10.37, 10.37
28.00 ± .00 x 2	23.26, 23.37
.75 ± .12 x 2	.75, .75
2.00 ± .25 x 2	2.00, 2.00
2.75 ± .25 x 4	3.00, 2.87, 2.87, 2.87
3.00 ± .25 x 2	3.25, 3.25
J.P.S. OK 11/10/11	

**MAINTENANCE RELEASE**

**Remarks**

(Details of work performed / reason for removal)

*TO BE RETURNED TO DACT.*

(Additional work to be performed upon installation)

Installed on: \_\_\_\_\_ A/F Time: \_\_\_\_\_  
Eng. Time: \_\_\_\_\_ Cycles: \_\_\_\_\_  
Sign: \_\_\_\_\_ Date: \_\_\_\_\_

**MAINTENANCE RELEASE**

**Remarks**

(Details of work performed / reason for removal)

*TO BE RETURNED TO DACT*

(Additional work to be performed upon installation)

Installed on: \_\_\_\_\_ A/F Time: \_\_\_\_\_  
Eng. Time: \_\_\_\_\_ Cycles: \_\_\_\_\_  
Sign: \_\_\_\_\_ Date: \_\_\_\_\_

**MAINTENANCE RELEASE**

**Remarks**

(Details of work performed / reason for removal)

*TO BE RETURNED TO DACT*

(Additional work to be performed upon installation)

Installed on: \_\_\_\_\_ A/F Time: \_\_\_\_\_  
Eng. Time: \_\_\_\_\_ Cycles: \_\_\_\_\_  
Sign: \_\_\_\_\_ Date: \_\_\_\_\_

**Remarks**

(Details of work performed / reason for removal)

*TO BE RETURNED TO DACT.*

(Additional work to be performed upon installation)

Installed on: \_\_\_\_\_ A/F Time: \_\_\_\_\_  
Eng. Time: \_\_\_\_\_ Cycles: \_\_\_\_\_  
Sign: \_\_\_\_\_ Date: \_\_\_\_\_

**Remarks**

(Details of work performed / reason for removal)

*TO BE RETURNED TO DACT.*

(Additional work to be performed upon installation)

Installed on: \_\_\_\_\_ A/F Time: \_\_\_\_\_  
Eng. Time: \_\_\_\_\_ Cycles: \_\_\_\_\_  
Sign: \_\_\_\_\_ Date: \_\_\_\_\_